



Global Conveyor Supplies Company Limited

Conveyor belt cleaning system

Belt Cleaner

The cleaner is one of the parts that the conveyor must be equipped with when conveying bulk materials. The cleaner is divided into the head cleaner and the non-loaded cleaner. The head cleaner is divided into primary and secondary cleaner, and the non-loaded cleaner is the tertiary part.

Head Cleaner

The head cleaner is installed at the discharge roller of the head conveyor to clean the materials adhering to the working surface of the conveyor belt and make the materials fall into the head hopper.

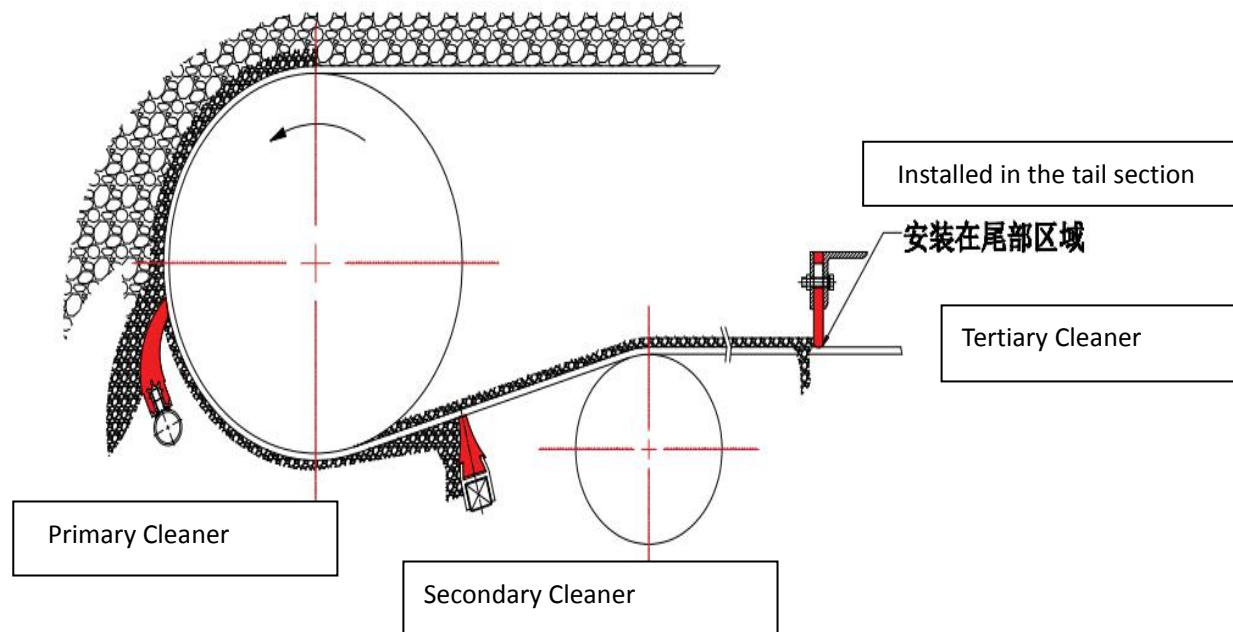
Non-loaded Cleaner

The non-loaded cleaner is used to remove the debris that falls on the non-working surface of the lower branch of the conveyor belt to protect the bend pulley and the conveyor belt.

Influence caused by the failure belt cleaner:

- ⊙ Residual materials on the belt will be scattered during the return journey, resulting in bad site environment and increasing the labor intensity of site maintenance personnel.
- ⊙ Residual materials on the belt will cause the belt to deviate and slip.
- ⊙ The residual material on the belt will increase the friction between the belt and the roller, and the belt and the pulley, thereby reducing the service life of the roller and the pulley, and increasing the energy consumption of the conveyor.

Head Cleaner Diagram

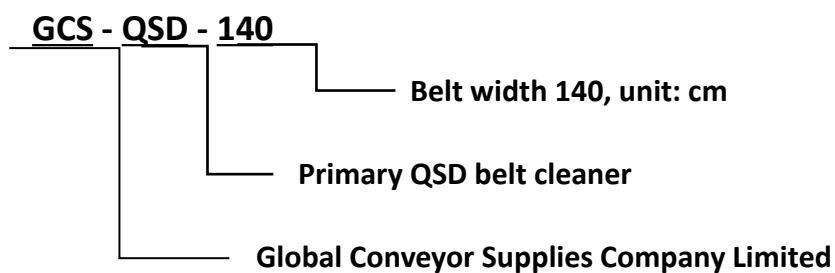


Primary Cleaner

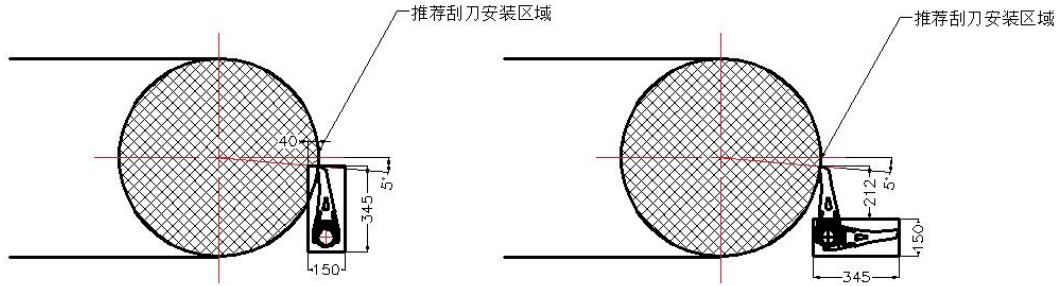
The primary cleaner is usually installed on the front of the head pulley, below the material flow. The construction and installation of the cleaner should avoid affecting the material transportation and prevent the materials accumulation of materials.

Primary QSD Belt Cleaner

Model Description



- ◆HOLE TYPE 1: The scraper edge can be observed during installation, which is convenient for daily maintenance.
- ◆HOLE TYPE 2: The cleaner is installed on the funnel. This hole avoids damaging the head funnel flange.

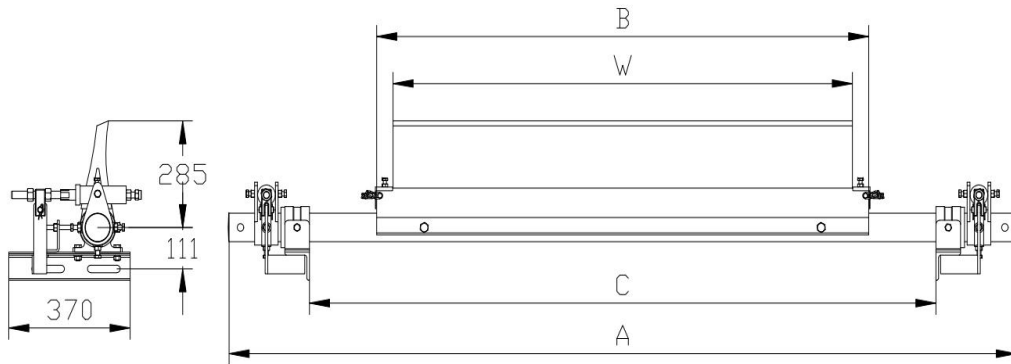


Recommended installation position

HOLE TYPE 1

HOLE TYPE 2

Note: When the belt speed of the supporting belt conveyor is low ($V \leq 1\text{m/s}$) and the inverse parabola cannot be formed, the scraper should be installed downwards (it cannot be installed at the recommended installation position) to prevent the material from forming a parabola and directly impact the scraper and cause damage



Specification	Belt width	A	B	W	Weight(KG)
RKM-QSD-50	500	1300	530	500	38
RKM-QSD-65	650	1450	730	650	42
RKM-QSD-80	800	1600	830	800	45
RKM-QSD-100	1000	1800	1080	1000	49
RKM-QSD-120	1200	2000	1280	1200	53
RKM-QSD-140	1400	2300	1480	1400	58
RKM-QSD-160	1600	2500	1680	1600	63

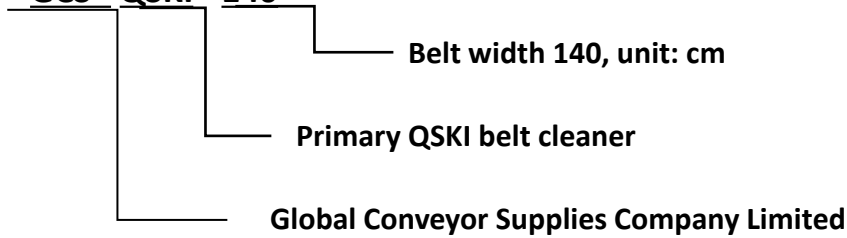
RKM-QSD-180	1800	2700	1880	1800	67
RKM-QSD-200	2000	2900	2080	2000	72

Note: C is the installation size, fitted on site

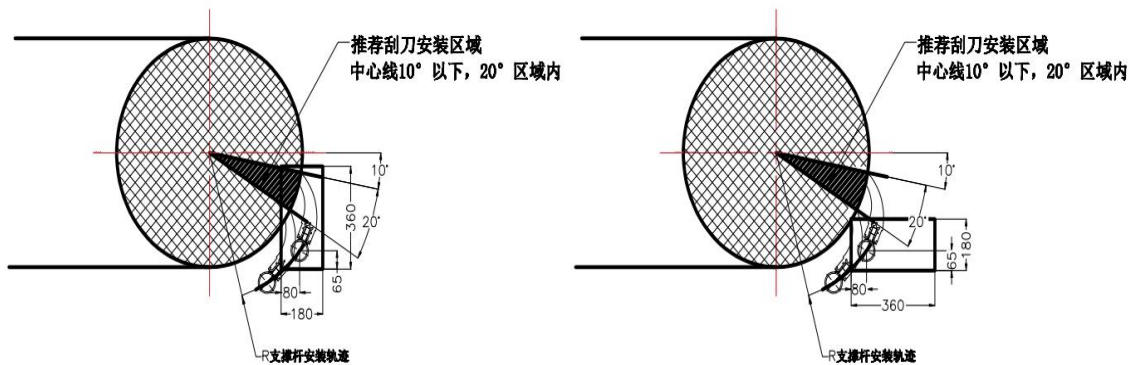
Primary QSK Belt Cleaner

Model Description

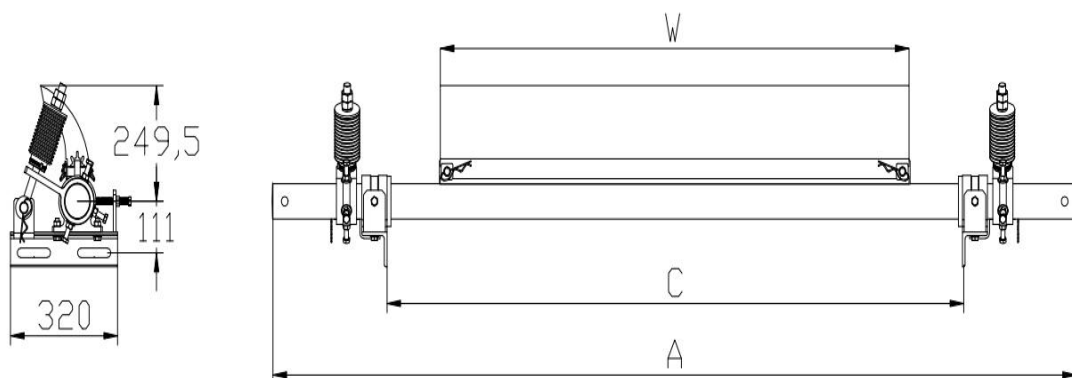
GCS - QSKI - 140



- ◆ HOLE TYPE 1: The scraper edge can be observed during installation, which is convenient for daily maintenance.
- ◆ HOLE TYPE 2: The cleaner is installed on the funnel. This hole avoids damaging the head funnel flange.



Recommended installation position, Below 10° of center line and within 20°



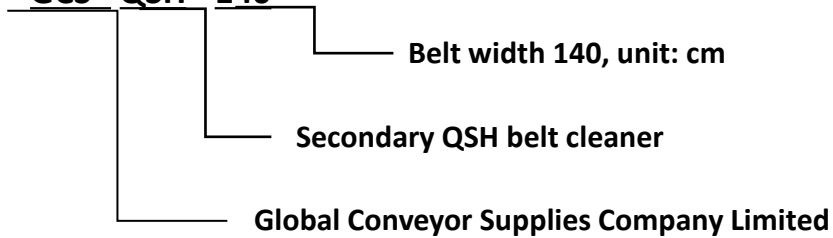
Specification	Belt width	A	W	Weight(KG)	
RKM-QSKI-50	500	1300	500	42	
RKM-QSKI-65	650	1450	650	46	
RKM-QSKI-80	800	1600	800	50	
RKM-QSK-100	1000	1800	1000	55	
RKM-QSKI-120	1200	2000	1200	61	
RKM-QSKI-140	1400	2300	1400	68	
RKM-QSKI-160	1600	2500	1600	73	
RKM-QSKI-180	1800	2700	1800	79	
RKM-QSKI-200	2000	2900	2000	85	

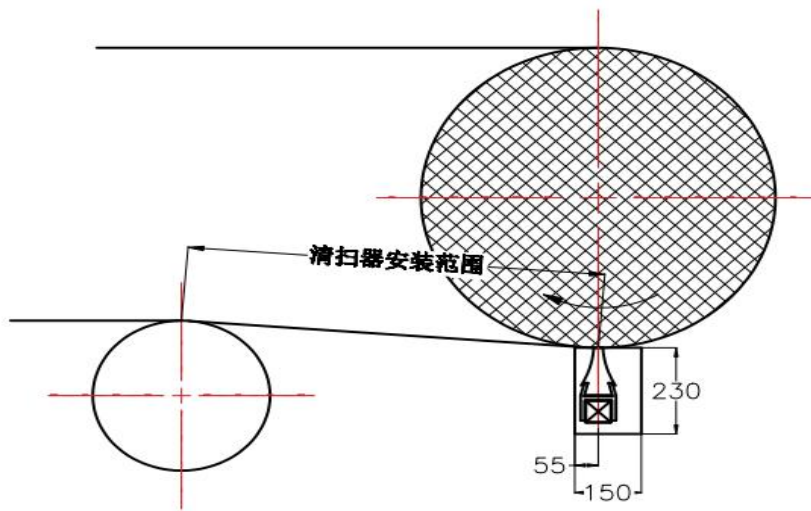
Note: C is the installation size, fitted on site

Secondary QSH Belt Cleaner

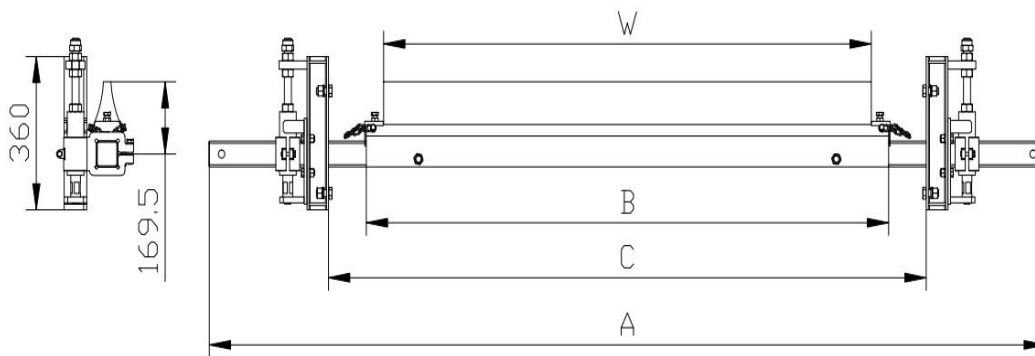
Model Description

GCS - QSH - 140





Cleaner installation range



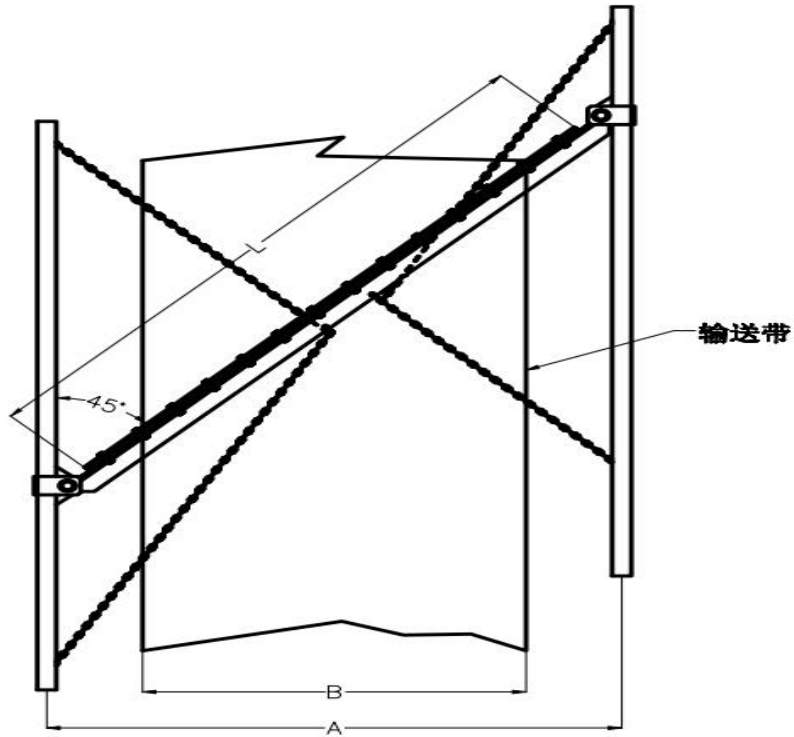
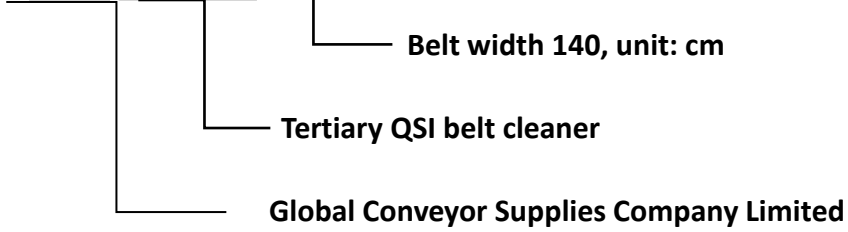
Specification	Belt width	A	B	W	Weight(KG)
RKM-QSHI-50	500	1300	530	500	36
RKM-QSHI-65	650	1450	730	650	41
RKM-QSHI-80	800	1600	830	800	45
RKM-QSHI-100	1000	1800	1080	1000	50
RKM-QSHI-120	1200	2000	1280	1200	55
RKM-QSHI-140	1400	2300	1480	1400	59
RKM-QSHI-160	1600	2500	1680	1600	64
RKM-QSHI-180	1800	2700	1880	1800	68
RKM-QSHI-200	2000	2900	2080	2000	72

Note: C is the installation size, fitted on site

Tertiary QSI Reversible Non-loaded Belt Cleaner

Model Description

GCS - QSI - 140



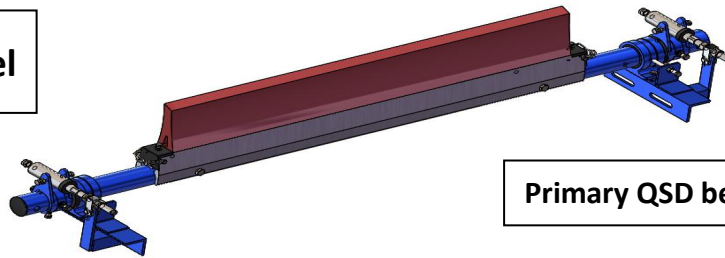
Specification	Belt width	A	L	Weight(KG)
RKM-QSI-50	500	740	750	20
RKM-QSI-65	650	890	970	26
RKM-QSI-80	800	1090	1200	32
RKM-QSI-100	1000	1290	1500	38
RKM-QSI-120	1200	1540	1800	45
RKM-QSI-140	1400	1740	2100	50
RKM-QSI-160	1600	1990	2400	56
RKM-QSI-180	1800	2210	2700	62
RKM-QSI-200	2000	2420	3000	68

Cleaner Selection Guide

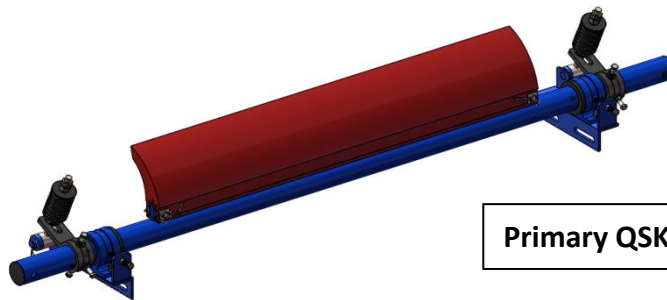
Requirement data

- ◆ Belt width
- ◆ Head pulley diameter
- ◆ Belt speed
- ◆ Characteristics of transmission materials
- ◆ Application environment temperature

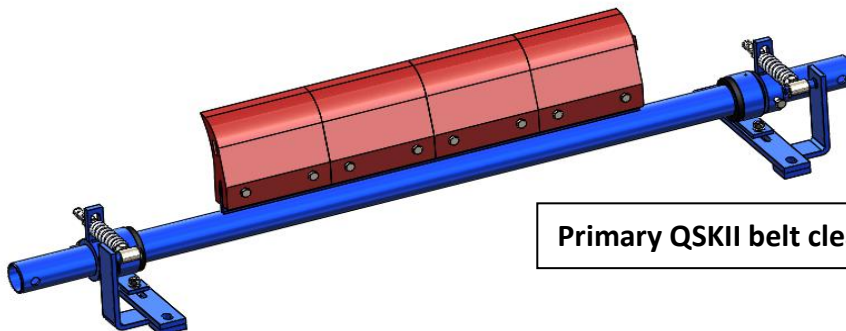
Cleaner Model



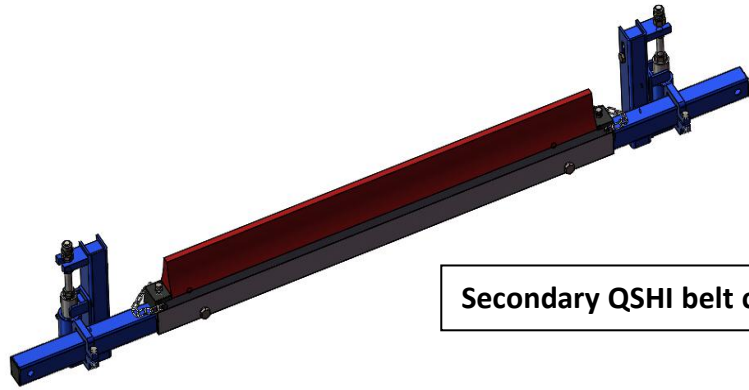
Primary QSD belt cleaner



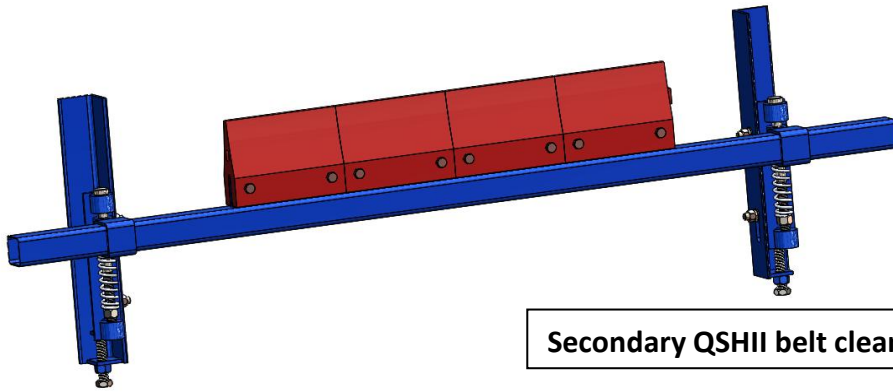
Primary QSKI belt cleaner



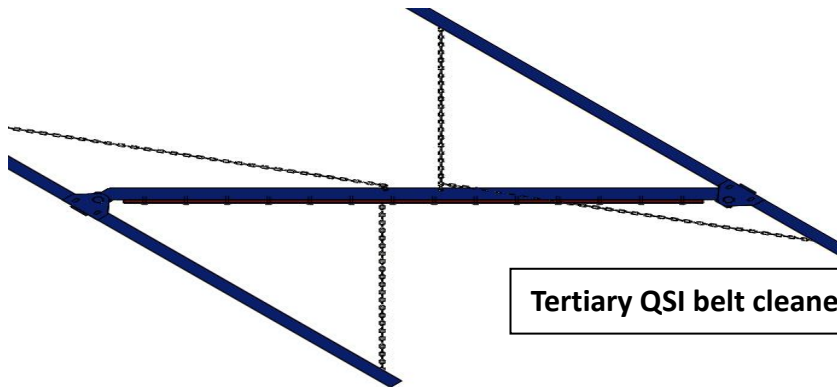
Primary QSKII belt cleaner



Secondary QSHI belt cleaner



Secondary QSHII belt cleaner



Tertiary QSI belt cleaner